

T/VIII/M-3
23 December 1964

UNITED STATES INTELLIGENCE BOARD
COMMITTEE ON DOCUMENTATION

TASK TEAM VIII - PHOTO CHIP

Minutes for the Third Session, 17, 18, 19 November 1964

Members or Their Representatives Present

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DIA - [] Chairman
CIA - []
ARMY - Capt. James Kroeger
- Mr. Ben C. Adams
- Lt. Col. James L. Mylar
NAVY - Mr. Tom Seymour
AIR FORCE - Capt. William L. Turner, FTD
- Maj. Melvin Tiemann, SAC
- Lt. Col. Eugene Tighe, SAC
- Col. Lee Schatzley, AFNIN
- Capt. Ev Biery, AFNIN
- Maj. Edward Sooy
- Maj. Howard Wright
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CSS - [] Secretary

1. The minutes of the last meeting were noted by the Task Team.¹

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¹ During the first few hours of the 17 November meeting []
[] served as Acting Chairman. While the Chairman was briefing
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CODIB on 19 November, Lt. Col. Eugene Tighe served as Acting Chairman.

DIA review(s) completed.

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Group I
Excluded from automatic
downgrading and
declassification.

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2. The Secretary reported on the status of the request for telephonic concurrence by CODIB of the DRAFT Terms of Reference. The sense of his report, based on partial returns, was that Army had no objection, that there had been some question about the "broadness" of the Terms, but that in his opinion CODIB would probably, after some clarifying discussion, approve the Terms. The Air Force alternate for Lt. Col. Thomas Scott indicated his belief that the Terms would not be approved by CODIB in their present form. This led to a fairly long discussion of the merits of the broad approach or the narrow approach, for the Photo Chip inquiry, during which much of the ground covered in the previous meeting was re-worked. It was eventually agreed, as had been done previously, that the Photo Chip Team should be free to inquire into any seemingly relevant activity during its fact gathering synthesis and analytic stages, and that in its report to CODIB the conclusions and recommendations should concentrate upon the problem of Photo Chip standardization in the context of the Community information processing system. This formulation, it was felt, would alleviate the misgivings of the casual, uninformed or first-time reader regarding the breadth of the Chip inquiry and the focus of the report to be made to CODIB. To this end, the Definition of Terms was altered, and a NOTE BENE outlining the goal of the inquiry was produced for inclusion in the Terms which were scheduled for consideration by CODIB two days hence.

3. On November 17, the Task Team toured the operating facilities of the Defense Documentation Center (DDC), Cameron Station, and received a briefing on the DDC Photo Chip Problem by Mr. Jack Simons. This Center is in the process of standardizing on a 4" x 6" Microfiche photo chip system for the storage, retrieval and reproduction of its extensive holdings on contractor activities in the S&T field. Eventually, the Center will deal in classified materials only, with services in the unclassified field being sub-contracted to OTS in the Department of Commerce.

4. Several actions were taken during the tour which will be of direct benefit to the Photo Chip inquiry. For example, a copy of the feasibility study for the upcoming DDC photo chip system will be forwarded to the CODIB Support Staff, as will selected contract proposals outlining the merits of various chip systems. These will be reproduced and circulated to all team members. On the Chairman's request, the DDC agreed to provide the results of a bibliographic search of its holdings on all aspects of the Photo Chip problem. It is interesting to note that the DDC plans to establish a manual system for storage and retrieval of Microfiche. Each file drawer will contain 1,000 chips; each will have a unique notch on the lower edge of the chip, and each 100 within a drawer will have a unique color code. We also noted that the accession number was to be carried in the upper left corner of the Microfiche chip as distinct from the proposed DoD standard 70 x 100 mm chip which places the number in the upper right corner. Though a seeming small difference, this could affect considerably exchangeability and equipment costs therefor.

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5. On November 18, the Team was also briefed on DOC, Inc., operations at Bethesda, Maryland, and later toured the operating facilities connected with the use of film chips for document storage, retrieval, reproduction and dissemination. DOC, Inc., is a prime contractor to NASA, the Army and Navy, and NIH. It operates an information facility for NASA for the collection, processing and reproduction and distribution of S&T information relating to the US aeronautical and space activities. Its holdings include classified and unclassified reports from both government and private contract services. DOC, Inc. also operates for the Army, Navy and NIH a Man-Machine Information Center which provides an interchange service for a number of government agencies and contractors working on defense and space programs. For the NIH, DOC, Inc., operates an information processing center for data on drug effects on animal cancer tumors. It is interesting to note that in the NASA services, a NASA representative monitors the decisions as to what information shall be stored and what requests shall be serviced. The tour provided an excellent review for the team of what could be done in the way of mechanized film chip processing for manual filing and for reproduction where the equipment was on-shelf about two years ago, and where economy and flexibility are balanced against high cost automation for high speed and high capacity.

6. The National Library of Medicine provided an excellent example of the use of mechanical aids for the reproduction of documents in a conventional library storage environment where the holdings are extensive in both old and new documents and where the retrieval pattern is widespread and relatively light. Mr. Ed Forbes briefed the group on current system studies under way to determine the most feasible and effective moves toward further automation. He had black-boarded a highly interesting alternative cost-value analysis for various methods, currently available, for storing the Library's entire holdings. This was highly interesting in itself, and also suggested possible applications as a technique for use against the Photo Chip problem when we reach the advanced synthesis stage and when we begin the assessment of alternative systems as to their adequacy in relation to requirements for quality levels, timeliness, exchangeability, cost, system flexibility, and the like. In discussions with the Chairman and the Secretary, Mr. Forbes indicated he would be most happy to run us through his "black-board" again after he checked out a few of his estimated figures. He also indicated he would be pleased to help the Team's inquiry in any way he could. He has a Top Secret clearance. The team will discuss at the next meeting ways by which Mr. Forbes' experience and talents can be utilized for both the fact-gathering and the analytic stages of the chip inquiry.

7. The matter of keeping adequate records of the Task Team's work is becoming more important as the Team begins producing papers, launching inquiries and responding in draft to the Terms. The present minutes cannot do the whole job, partly because of their summary nature, but largely because of the classification of many discussions and papers. We would not wish, however, to sacrifice the present minutes as the general record of Team activities that can be circulated to all interested parties at the Secret level. The surfacing by Team members of more and more reference

reports which provide additional insights and which enable the Team members to save valuable time also contribute to the difficulty of using the general minutes for work records, especially since these papers are produced at various classification levels, and since, quite apart from classification, they are held in varying degrees of sensitivity. With this issue, general minutes will carry cumulative listings of Working Papers and Reference Reports as the above considerations permit. More definitive procedures for handling other aspects will be discussed at the next meeting.

8. Lt. Col. James Mylar from the ISCIG Secretariat provided a series of memos and some ISCIG records which he had selected as providing background essential to the Team endeavors. These deal, for example, with common reconnaissance data marking systems, standardization of reconnaissance chip size and shape, interior format and content of a standard film chip, and a standard accession numbering system. These will be reproduced by the CODIB Support Staff and distributed to all Team participants.

9. While the Chairman and Secretary were briefing CODIB on the DRAFT Terms, the Team took several actions constituting initial responses to the first four parts of the Terms. A first-cut general statistical paper was produced on DoD collection, processing and using systems involved in multi-sensor imagery. A second first-cut general statistics paper was produced dealing with DoD producing agencies using chip systems for intelligence planning, estimating, targeting, mapping and charting. Both drafts were turned over to Captain Turner (FTD) who agreed to reproduce them for the next Team meeting. The Army participant agreed to provide to Captain Turner some information for the second paper. The Team accepted the draft of the (Seymour-Tighe) preface paper as corrected and labelled "Attachment No. 1, Minutes of the 17-18-19 Session." The Team took special note of the vital importance to the Photo Chip inquiry of current developments (Fairchild) in the field of inflight applied digital data block markings on the "Military Standard Tactical Reconnaissance Data Markings" (Mil-STD-782). The Team also notes that an appendix, including all those chip systems which have or will come to the attention of the Team, and which are used for other than those uses listed in Paper No. 2 on Chip Systems must be compiled as the Team continues its inquiry.

10. In the course of the above discussions, it became apparent that the Team's inquiry could probably be expedited considerably by broadening the participation to include ACIC, TAC/AIR, and AMS. Col. Mylar agreed to look into participation by AMS. Major Edward Sooy agreed to do the same for TAC/AIR and ACIC.

11. The next session for the Team was confirmed for December 1, 2 and 3 at the Foreign Technology Division (AF) Wright Patterson Air Force

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Base, Dayton, Ohio. Captain Turner will make arrangements for the initial tour of both special and general photo chip systems, and for working and residence. An initial number of 12-15 was determined for the working trip. It was agreed that a special memo should be circulated to team participants as soon as possible to expedite the necessary preparations. Each participant will be provided with the time and place of departure and return. Each participant must forward appropriate clearances to FTD Security officer, Wright Patterson Air Force Base, Dayton, Ohio.



~~Secretary~~

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S E C R E T

AGENDA

1. Minutes
2. Chairman's Report on Terms (CODIB Minutes)
3. Review of two general statistical papers (IWP No. 3 and No. 4) produced at last meeting, and merging of additional information obtained since by Team members, including Drafting of additional papers responding to Terms.
4. Summary of FTD activities and their relationship to the Photo Chin Problem.
5. Study and drafting assignments for the next meeting.

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CUMULATIVE LISTING OF TASK TEAM VIII

INTERNAL WORKING PAPERS (IWP)

VIII - IWP 1 - October 20-21-22, 1964 - Tighe & Team

Strategic Requirements Paper

VIII - IWP 2 - October 20-21-22, 1964 - Seymour & Team

Tactical Requirements Paper

Strategic Requirement Supplement

- Lt. Col. Tighe

VIII - IWP 3 - (To be filled out at FTD)


VIII - IWP 4 - (To be filled out at FTD)

VIII - IWP 5 - (To be filled out at FTD)

VIII - IWP 6 - (To be filled out at FTD)

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TASK TEAM VIII REFERENCE PAPERS

1. USIB-M-322, 29 April 1964
2. Special ISCIG Committee for Standardization of Plans and Devices for Storage and Retrieval of Reconnaissance Materials, 10 June 1963.
3. Staff for Community Processing Study (SCIPS) Stage I Report

4. Selected ISCIG Papers.
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